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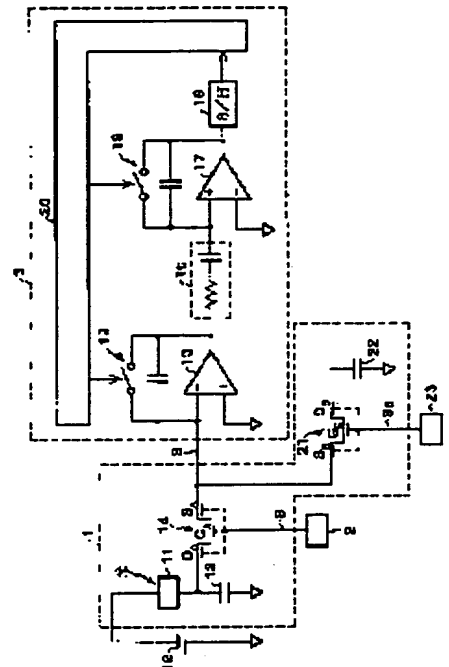
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## (54) PHOTOELECTRIC CONVERTER, AND ITS DRIVE METHOD

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a photoelectric converter that cancels a feed-through signal component caused when a thin film transistor(TR) is employed for a switching element so as to detect image pickup data on which no feed-through signal component is superimposed and to provide its drive method.

**SOLUTION:** An image pickup device that is the photoelectric converter uses a photoelectric conversion layer 11 to generate electric charges (image pickup data) of a quantity in response to a light emission quantity and an auxiliary capacitor 13 stores the electric charges, and the charges are transferred to a detection IC 3 via a data line 8 under the control of a TFT(Thin Film Transistor) 14. Furthermore, the data line 8 is provided with a cancellation TFT 21 having the same characteristic as that of the TFT 14. The TFT 14 and the cancellation TFT 21 are synchronous with each other and subjected to ON/OFF control by gate drive signals with an equal voltage and polarities inverted to each other and the feed-through signal component applied from the TFT 14 to the data line 8 is cancelled by the feed-through signal component applied from the TFT 21.



## LEGAL STATUS

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